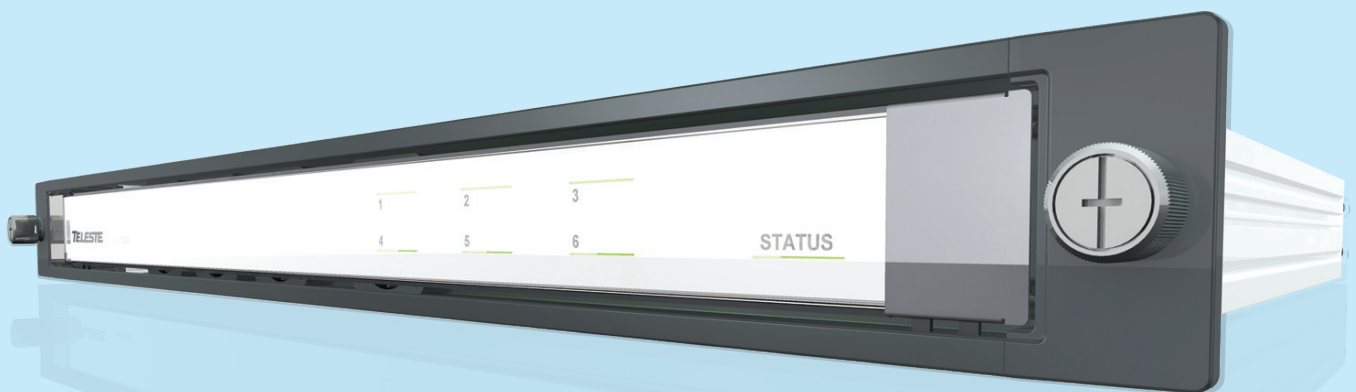# Fully scalable Headend platform for Cable TV and IPTV networks

Luminato is a high density modular platform for IPTV and cable TV headends with advanced real time stream processing.

The Luminato platform is the most compact form factor in the industry with minimal power consumption. The chassis have been divided into six processing modules. All modules can be hot swapped and auto configured, minimising service outage. The module slots can be equipped with ASI to IP, DVB receivers and QAM output depending on the application requirements.

The two Gigabit Ethernet interfaces with electrical or optical SFP modules are provided for IP payload traffic. MPEG-2 and MPEG-4 with SD and HD are supported, suitable for IP centric Cable TV and IPTV networks.
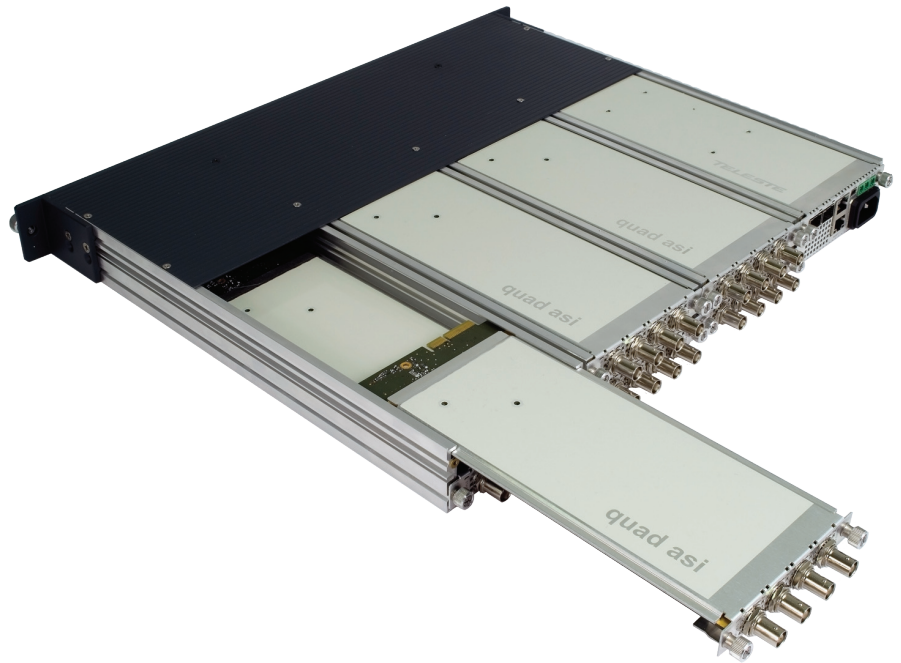
Management of the platform is via a web user interface, providing local or remote access. The advanced DVB stream processing, UDP/IP and RTP/IP streaming and MPTS pass through offers a very flexible environment for service management.

24/7 support is available for Luminato and pre-configured platforms can be provided.

Luminato business benefits

- Fully modular platform that grows with your business, from a compact 1 RU "headend in a box" to a multi-site, distributed headend solution
- Platform's small footprint enables efficient space usage
- Low power consumption enables longer module lifetime and lower energy costs. Energy efficiency also reduces site cooling requirements
- Internal switch for cable free inter-connections and simplified mainte-nance
- Advanced DVB stream processing offers flexibility for channel creation and simplicity in multi-vendor envi-ronments
- The ability to customise content de-livery to targeted subscriber groups

Technical specifications

Chassis	
Mounting	19" rack mountable, 1RU Installation rails for easy installation
Dimension (H x W x D)	1U x 19" x 407 mm
Operating voltage	100-240 VAC 50/60 Hz
Power consumption	max. 100 W / fully occupied chassis
Operating Temperature	0…50 ºC ambient
Relative Humidity	up to 90% (non-condensing)
Cooling	replaceable fans

Management interfaces	
Two 10/100 BaseTX	for CAS and NMS
USB	for initial setup

Stream interfaces	
Two gigabit Ethernet ports	Supports electrical and optical SFP modules

Management and monitoring	
Web user interface	
CLI	
SSH	
SNMP	

Interface Modules	
6 slots for hot swappable processing modules	

ASI input module	
Input	Four ASI
Connectors	BNC 75 ohms
Advanced DVB processing	Service filtering, service component filtering, Service Id followup, PID remapping, filtering, demuxing to SPTS and MPTS pass through
Protocols	Unicast or multicast IP streaming, DVB over UDP or RTP
PSI/SI processing	Pass through and regeneration

Receiver modules	
Input	DVB-T or DVB-S2
Descrambling	Two CI slots for descrambling CAM modules
Advanced DVB processing	Service filtering, service component filtering, Service Id followup, PID remapping, filtering, demuxing to SPTS and MPTS pass through
Protocols	Unicast or multicast IP streaming, DVB over UDP or RTP
PSI/SI processing	Pass through and regeneration

Note! More processing modules for the Luminato platform are under development.